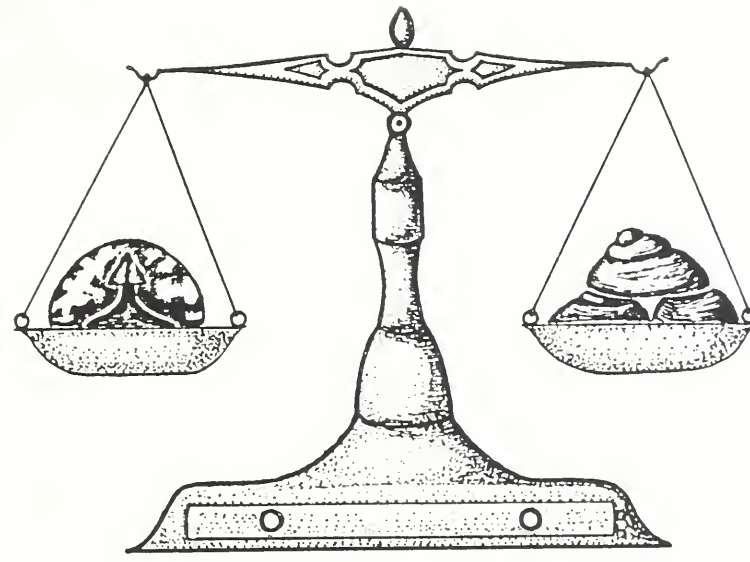


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THE SCALE



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MEETING ANNOUNCEMENTS

SIXTH INTERNATIONAL SYMPOSIUM OF SCALE INSECT STUDIES
Cracow, August 6-12, 1990

Dear Colleague,

You will remember that December 1989 was the deadline for registration and submitting symposium papers (see second circular). Only a few persons had settled their summer plans and had provided their papers at that time. On the other hand, I was undecided as to the hotels, program, etc. As a result, I am so late with the third circular; I am very sorry!

Papers. ISSIS is a meeting of the Coccidea specialists. Unfortunately, not all scientist working in this area are able to participate in the meeting personally. However, by submitting a paper, article or even a letter with results of current studies or some ideas about scale insects, you may take part in the symposium in absencia.

About 40 papers have been provided and about 20 more are expected. To make the proceedings uniform some emendations were introduced to the manuscripts. There was no time to ask you for acceptance of these changes; I am sorry.

I plan to publish the papers before the meeting. Some participants are not yet ready with their manuscripts and will submit them at the symposium; may I ask you for ca. 50 copies of your abstracts. Many of us are not very familiar with spoken English.

Participants. About 50-60 participants plan to attend the symposium, some with accompanying persons. In addition to coccidologists, some researchers who study relatives will take part in the meeting and will present their opinions of scale insect, classification and phylogeny.

Accommodation. We have booked student hostels or the like for those who asked for reservations. Currently I can only say that the expenses will not be very high, perhaps 5-15 \$/day in a student hostel; another 10-20 \$ daily will cover further costs (obviously, compared with my \$100 monthly income, it is rather expensive).

Registration fee. There is no registration fee because of the unstable situation here and to encourage participation of those who are not supported by an institution. Unfortunately, the Academy of Agriculture has not been able to support the symposium financially. Despite this setback, I hope that we can organize the meeting without registration fees, or with only that gathered during the symposium. All support will be acknowledged in the symposium issues.

Addresses:

- * for correspondence - Jan Koteja (secretary), Institute of Applied Zoology, Academy of Agriculture, Mickiewicza av. 24, 30-059 Krakow; (buss 119 from the train station, 208 from airport) tel. 33-87-65, telex 322469 arpl
- * private - Syrokomli str, 23, r. 9 (buss 119, stop at the Cracovia Hotel)
- * conference and student hostel - Faculty of Horticulture, 29 Listopada av 54 (bus 105 from the train station).

Program. As in Budapest and Portici we propose the following provisional schedule for our meeting:

- August 5 and 6 - arrival, accommodation, informal meetings, etc.
- August 7 - opening ceremonies, paper presentation, evening meeting
- August 8 - paper and poster sessions
- August 9 - all day excursion
- August 10 - paper session, round table discussion, evening meeting
- August 11 - interest group meetings, closing ceremony, town visting
- August 12 - departure

A detailed and completed program will be provided on your arrival.

A provisional list of participants (persons who plan to attend the meeting and/or have submitted manuscripts are included):

J. Zrzavy, J. Zahradnik Czechosl., F. Kozar Hungary, N. Hristovski Yugosl., E.M. Danzig, E. Sugonyaev, H.M. Konstantinova, D.E. Shcherbakov, V.A. Yasnosh, V.A. Zakharian, R. Jashenko, S.A. Mjarceva USSR, G. Kohler Germany, D. Matile-Ferrero France, J. Merlin, R. Tondeur, J. Wouters Belgium, R. Bing-Moenen Netherlands, C. Hippe Switzerl., J. Cox, V. Estop, C. Hodgson, M.C. Watson, D.J. Willams England, D. Battaglia, C. Calabretta, P. Camporese, L. Dalla Monta, S. Longo, S. Marotta, L. Marzo, S. Nucifora, G. Pellizzari, A. Russo, A. Sinacori, A. Tranfaglia, G. Viggiani Italy, A.H. Amin, Gamal E.S. Abo El-Ghar, Y.M. Ezzat, J.A. Farag, M.W. Ghabbour, Samia M.A. Nada Egypt, Y. Ben-Dov, U. Gerson, Z. Mendel, D. Rosen, A. Yardeni Israel, G. Giliomee S. Africa, U.S. Bhatti, S. Moharana, R.K. Varshney India, Yu-Liang Shi, Tang Fang-Teh China, P. Gullan, Ting-Kui Qin, A.M. Richards, J.A. Vranjic Australia, C. Morales New Zealand, J.O. Howell, M. and M. Kosztarab, P.L. Lambdin, C.W. Schaefer, M.B. Stoetzel, M.L. Williams USA, and a few persons from Poland.

Cracow, May 25, 1990

J. Koteja
Secretary

ESA NATIONAL CONFERENCE

The following session is scheduled as part of the Entomological Society of America National Conference to be held in New Orleans in December of 1990. The program is organized to honor Louise M. Russell who has been an inspiration to many of us over the past 40 or 50 years. Please plan to join us. The program is as follows:

Sunday Afternoon, December 2

Informal Conference
 Biosystematics of Homoptera
 Sternorrhyncha
 In Honor of Louise M. Russell
 Room
 Organizer and Co-Moderator:
 M. Kosztarab
 Dep of Entomol. VPI&SU
 Blacksburg, VA 24061-0319
 Co-Moderator:
 D. R. Miller
 Systematic Entomology Laboratory
 USDA, ARS, Beltsville, MD 20705

1:30 Introduction. M. Kosztarab

1:31 Louise M. Russell: Our colleague and her contributions to the study of Homoptera. M. B. Stoetzel, Systematic Entomology Laboratory, USDA, ARS, Beltsville, MD 20705.

1:42 The life histories of aphids I have known. C. L. Smith, 2716 Rosedale Ave, Raleigh, NC 27695.

2:06 Life history of the crapemyrtle aphid, Tinocallis kahawaluokalani. D. R. Alverson and R. K. Allen, Dept. Entomol., Clemson University, Clemson, SC 29634-0365.

2:18 Population trends and damage of hemlock woolly adelgid, Adelges tsugae Annand (Adelgidae). M. S. McClure, Connecticut Agricultural Experiment Station, Valley Laboratory, P.O. Box 248, Windsor, CT 06095.

2:30 Recess

2:42 Needs in North American Psyllidae systematics. D. G. Pfeiffer, Dept. Entomol. VPI&SU, Blacksburg, VA 24061-0319.

2:45 Sperm evolution and ultrastructure. W. G. Robison, Jr., Nat. Inst. of Health, Bldg. 9, Rm. 1E-104, NEI, Bethesda, MD 20892.

3:06 Structure and formation of cysts and protective systems in Margarodidae. I. Foldi, Dept. of Entomol. Mus National d'Histoire Naturelle, 45 Rue Buffon Paris 75005; through April 1991 at VPI&SU, Blacksburg, VA 24061-0319.

3:18 Economic uses of margarodids in the genus Llaveia by indigenous cultures in Central America. M. L. Williams, Dept. Entomol. Auburn Univ., Auburn, AL 36849-4201 and C. M. MacVean, Univ. del Valle, Apart. Postal 237, Antigua, Guatemala.

3:30 Recess

3:42 Hawaiian Pseudococcidae: origins and evolution. J. W. Beardsley, Dept. Entomol. Univ. Hawaii, 3050 Maile Way, Rm 310, Honolulu, HI 96822.

4:06 The Pseudococcus affinis group (Pseudococcidae). D. R. Miller, Systematic Entomology Laboratory, USDA, ARS, Beltsville, MD 20705 and W. F. Gimpel, Plant Protection Section, Dept. Agricult. 50 Harry S. Truman Parkway, Annapolis, MD 21401.

4:18 An evaluation of the type species of Sphaerococcinae (Pseudococcidae). H. J. Hendricks and M. Kosztarab, Dept. Entomol. VPI&SU, Blacksburg, VA 24061-0319.

4:30 Status report on the systematics of cochineal insects (Dactylopiidae). G. Perez-Guerra, Dept. Entomol., VPI&SU, Blacksburg, VA 24061-0319.

4:42 Nearctic male soft scales of Eulecanium, Mesolecanium and Sphaerolecanium (Coccidae). G. L. Miller and M. L. Williams, Dept. Entomol. Auburn Univ., Auburn, AL 36849-4201.

4:45 Scale insects on coffee in Guatemala and possible involvement in "Mal de Vinas" disease. C. M. MacVean, Univ. del Valle, Apart. Postal 237, Antigua, Guatemala, and M. L. Williams, Dept. Entomol. Auburn Univ., Auburn, AL 36849-4201.

5:06 The way we were through ten symposia/conferences and their significance for Sternorrhyncha research (1966-1990). M. Kosztarab, Dept. Entomol. UPI&SU, Blacksburg, VA 24061-0319.

5:18 Round table discussion. Business.

5:30 End.

Editor's Comments

I still am not receiving news items from those of you who receive Scale. This may be partially because of the considerable time lapse between editions, and I apologize for the delay. HOWEVER, please send news items for the newsletter; others will be interested in hearing about your activities.

The following three reports were received since the last Scale.

Occurrences at Beltsville, Maryland

USA

by D. R. Miller

Research continues at a snail's pace because of my heavy administrative load. However, I was fortunate to have three months to work on cooperative research with Bill Gimpel of the Maryland Department of Agriculture on the Pseudococcus affinis group of mealybugs. We expect to submit a manuscript for publication within the next several months.

In January I took the opportunity to combine administrative responsibilities and research needs by driving to Florida for a meeting. In transit I visited the collections at Virginia Polytechnic Institute and State University, Blacksburg (VPI); Georgia Agricultural Experiment Station, Tifton (UG); University of Tennessee, Knoxville (UT); Florida Department of Plant Industry, Gainesville (DPI). During my visit I was gathering a few more records for a publication on the eriococcids of the Eastern United States. I was able to visit with Michael Kosztarab and his crew at VPI; Jim Howell, Ham Tippins, and Ramona Beshear at UG; Paris Lambdin and his graduate students at UT; and Avas Hamon and his crew at DPI. It was a very productive and useful trip.

1989 Progress Report from Virginia Tech Coccidology Laboratory

Michael Kosztarab and Mary Rhoades
Department of Entomology, Virginia Polytechnic Institute
and State University, Blacksburg, VA 24061-0319

1989 was a busy year for our laboratory crew. We completed and printed in a 195-page research bulletin the results of the North American *Chionaspis* revision (No. 15 in the green-colored scale insect series). It is available on an exchange basis or for \$4.70 from our Lab. Our new scale literature cataloger, Ms. Karen Veilleux, completed the change from storing information on printed 2x5 cards to electronic storage on diskettes (with backups on a hard disk), using the Pro-Cite software which is now the standard for the USDA-ARS. With this system computerized retrieval of information will be possible including searching by species, genus, author, year, etc. Diskettes are sent to the Systematic Entomology Laboratory (USDA) as literature sources are finished, and copies can be sent to individuals who are interested in gleaning information on a particular topic or group. Ms. Veilleux is requesting copies of new papers published by colleagues so that these can be processed in time to be listed in the next issue of SCALE by D. R. Miller.

Ms. Gema Perez Guerra completed course requirements for her Ph.D. and, after successfully passing her preliminary exams, is ready to complete her doctoral research on the Dactylopiidae in 1990. Those colleagues who are still "sitting on" Dactylopiidae specimens, please lend them to her to work on as soon as possible.

We installed a new personal computer in our laboratory for the cataloging and curation of the insect collections. These collections became part of the new Museum of Natural History here at VPI & SU, which is a branch of the Virginia Museum of Natural History in Martinsville. Our dry-preserved scale insect collections will be transferred to the new museum building, located just across from the main mall entrance to the university. It will be a safer storage place than the present one. Kosztarab is serving as interim co-director for the new branch museum until June 30, 1990. The opening of the campus museum was the realization of a 20-year-old dream for him.

Mr. Harlan Hendricks is progressing well on the Sphaerococcinae revision and he will be reporting on it in Krakow next August. He is also requesting more material on loan, so please check your holdings. *Antonina* and *Chaetococcus* are the most common genera in this family.

We received unexpected good news last summer from the Cornell University collection curator, Dr. E. Richard Hoebeke, that the *Anthribus nebulosus* beetles we released here in 1978 and 1981 have become common in the northeastern U.S. and are doing a great job as predators of the spruce bud scales, *Physokermes* spp. The beetles were collected in Hungary and reared in the Quarantine Laboratory in Blacksburg.

During the summer, Kosztarab reorganized and updated the dry scale insect collection of the Biosystematics Research Centre, Agriculture Canada, consulted, and collected.

Mary Rhoades and her laboratory crew are preparing for printing the 15 reviewed and edited manuscripts which were presented as papers during the 1988 ESA symposium, "Diversity and Dynamics of the North American Insect and Arachnid Fauna." The title of the book (co-edited by M. Kosztarab & C. W. Schaefer) will be "Systematics of the North American Insects and Arachnids: Status and Needs." The 250-page book includes a status report on the taxonomy of Homoptera, including scale insects, and is for sale at a price of \$10.00 before publication or \$15.00 after it is printed (postage included). It can be ordered from:

Dr. Gerald L. Jubb, Jr.
104 Hutcheson Hall, VPI & SU
Blacksburg, VA 24061-0319

The check should be made out to "Treasurer, Virginia Tech."

We are pleased at the news that Dr. I. Foldi, of the National Museum of Natural History in Paris, is planning to work in our laboratory for 12 months starting in April 1990. He intends to work on the neglected Kermesidae males. Therefore, if you have any specimens, please lend them to us for processing.

The 10th North American Sternorrhyncha Symposium will be held on the afternoon of December 2 (Sunday) at the Annual Meeting of ESA in New Orleans, Louisiana, December 2-6, 1990. Please send your title (tentative or final) to Michael Kosztarab by Friday, February 2, 1990 so that reservations for the symposium can be made in time. Please also state whether your oral presentation will be for 10, 20, or 30 minutes, and encourage your colleagues and students to participate.

Notes from China
by
Fang-teh Tang

As the "Scale" Editor's "Comments" requested, I would like to write you with information about myself. In these two years I have finished two books, one entitled "Observation on the Coccidea Pests of Inner Mongolia in China" which has been published recently; another is just finished, namely "The Asian Coccidae", besides, we synthesized a new pesticide -- Cerocide. Enclosed are two abstracts.

Cerocide, A New Pesticide Against
The Wax Scales

F.T. Tang, Y. N. Dong, J.J. Hao, Y. P. Xie, Y. Tang, Y. H. Linag, H. P. Liu, J. Fang
Department of Plant Protection, Shanxi Agricultural University, Taigu, Shanxi, P.R. China.

The wax scales are considered to be serious economic pests of fruit trees, forest and ornamental plants. This research involved 5 elements: 1) the synthesis of a chemical that gave good results in field test by the entomologists of the Agricultural University of Shanxi Province in China; 2) the significance of the wax and its impact on infestations? 3) species of wax scales and their distribution in China, eastern Asia, and in the world; 4) the biology of wax scales and with detailed information on the species in China; 5) Cerocide after 3 years of field tests in the Zizyphus-gardens of Linfen County, Shanxi Province as a winter spray obtains has produced very good results (95% of the hibernating adult females were killed).

Cerocide is composed of a wax solvent, emulsifer, insecticide and a little viscid material.

The chemical was manufacutred by Shin Shin Enterprise Company, Addi Liao An Road, Gongbei, Shuhai, Guangdong, China. Tel: 85784 Cable 9874

"The Asiatic Coccidae"
Fang-teh Tang

After the three volumes of "The Scale Insects of Horticulture and Forest of China" published in 1977 (vol. I General), 1984, 1986 (Vol. II, III Diaspididae), I intend to complete a 4th volume on the Family Coccidae. Because the family is poorly known in China, this work will include a complete checklist and taxonomic treatment of China and it's neighboring countries. The keys will cover all of Asia.

Borchsenius' (1957) system of classification is followed with the addition of one new subfamily, one new tribe and 4 new subtribes, giving a total of 4 families, 6 tribes and 10 subtribes. There are 72 genera and 279 species treated in the book, of which 1 genus and 3 species are described as new to science. The other genera and species are cited from original descriptions and redescrptions and illustrations, and Chinese taxa are redescrbed and illustrated when material was available.

Recent Literature
by
D.R. Miller, Systematic Entomology Laboratory

The following list was compiled from the Coccoidea Current Awareness Search from the National Agriculture Library and from publications submitted to the editor. I want to give special thanks to Diane Lathrop of SEL for entering the data and for compiling the word-processing document.

ABDEL-KAREIM, A.;ETC.

- 1988 EFFECTS OF THE JUVENOIDES FENOXYCARB, HYDROPRENE, KINOPRENE AND METHOPRENE ON FIRST INSTAR LARVAE OF EPIDIASPIIS LEPERII SIGN, AND ON ITS ECTOPARASITOID , APHYTIS MYRTILASPIDIS (LE BARON) J APPL ENTOMOL 106(3): 270-275. EN GE

AISAGBONHI, C.;NWANA, I.;ETC

- 1985 PRELIMINARY ANALYSIS OF A FIELD POPULATION OF ASPIDIOTUS DESTRUCTOR SIGNORET AND SOME SOFT SCALES ON COCONUT PALMS NIGERIAN JOURNAL OF ENTOMOLOGY 6(1-2): 24-32. EN

ARGOV, Y;ROSSLER, Y.

- 1988 INTRODUCTION OF BENEFICIAL INSECTS INTO ISRAEL FOR THE CONTROL OF INSECT PESTS PHYTOPARASITICA 16(4): 303-316. EN

BABU, T.;AZAM, K.

- 1987 STUDIES ON BIOLOGY, HOST SPECTRUM AND SEASONAL POPULATION FLUCTUATION OF THE MEALYBUG, MACONELLICOCCLUS HIRSUTUS (GREEN) ON GRAPEVINE INDIAN JOURNAL OF HORTICULTURE 44(3-4): 284-288. EN
- 1989 BIOLOGICAL CONTROL OF GRAPE MEALYBUG MACONELLICOCCLUS HIRSUTUS GREEN INDIAN J PLANT PROT 17(1): 123-126. EN

BAINLEY, Y.

- 1987 NEW SPECIES OF THE GENUS FIORINIA TARGIONI FROM CHINA CONTRIBUTIONS FROM SHANGHAI INSTITUTE OF ENTOMOLOGY 7: 123-134. CH EN

BANERJEE, T.;RAYCHAUDHURI, D.

- 1987 SPATIAL DISTRIBUTION OF MEALYBUG, COCCIDOHYSTRIX INSOLITUS GREEN, ON SOLANUM MELONGENA LINN SCI CULT 53(11): 343-344. EN

BAR-ZAKAY, I.;PELEG, B.;ETC

- 1989 MATING DISRUPTION OF THE CALIFORNIA RED SCALE AONIDIELLA AURANTII HASSADEH 69(7): 1228-1231. HE EN

BASALAH, M.

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BATTAGLIA, D.;VIGGIANI, G.

- 1986 NATURAL ENEMIES OF THE HOLLY SCALE DYNASPIDIOTUS BRITANNICUS (NEWSTEAD) IN ITALY BOLL LAB ENTOMOL AGRAR FILIPPO SILVESTRI 43: 139-142. EN IT

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 1989 UPDATE CONCERNING HORTICULTURAL OIL CONCENTRATIONS FOR VERDANT USE J ARBORICE 15(2): 51-52. EN
- BEARDSLEY, J.;ETC.
 1988 A NEW PARECHTHRODRYINUS GIRAULT, 1916 ATTACKING XYLOCOCCLUSUS MORRISON, 1927 IN CALIFORNIA, WITH A DISCUSSION OF HOST RELATIONSHIP PROC HAWAII ENTOMOL SOC 28: 161-168. EN
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 1989 THE BIOLOGICAL CONTROL OF CIRCULAR PURPLE SCALE, CHRYSOMPHALUS AONIDUM (L.), ON CITRUS IN SOUTH AFRICA REPUBLIC OF SOUTH AFRICA DEPT OF AGRI AND WATER SUPPLY 218: 1-16. EN AF
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 1988 THE SCALE INSECTS OF CITRUS IN ISRAEL: DIVERSITY AND PEST STATUS PROC OF 6TH INTERNAT CITRUS CONG 1075-1082. EN
- 1988 MANNA SCALE, TRABUTINA MANNIPARA (HEMPRICH & EHRENBERG) SYSTEMATIC ENTOMOL 13(4): 387-392. EN
- 1989 SAISSETIA DEPLANCHE, 1859: PROPOSED DESIGNATION OF LECANIUM COFFEA WALKER, 1852 AS THE TYPE SPECIES BULL ZOOL NOMENCLATURE 46(2): 114-118. EN
- 1989 SOFT SCALE INSECTS ON TILLANDSIA IN CENTRAL AMERICA SYSTEMATIC ENTOMOLOGY 14(1): 1-6. EN
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- BEN-DOV, Y.;MATILE-FERRERO, D.
 1989 TAXONOMY AND NOMENCLATURE OF FIVE HITHERTO INADEQUATELY KNOWN GENERA OF MEALYBUGS (HOMOPTERA: COCCOIDEA: PSEUDOCOCCIDAE) SYST ENTOMOL 14: 165-178. EN
- BENASSY, C.;PINET, C.
 1987 ON THE INTRODUCTION INTO FRANCE OF APHYTIS YANONENSIS DE BACH & ROSEN, A PARASITE OF THE CITRUS ARROWHEAD SCALE: UNASPIS YANONENSIS KUW COMPTES RENUOUS DE L'ACADEMIE D'AGRICULTURE DE FRANCE 73(9): 33-38. FR EN
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1989 ANDERSON SCALE *CRIBROLECANIUM ANDERSONI* NEWSTEAD A PEST ON CITRUS IN SOUTH AFRICA CITRUS SUBTROP FRUIT J 0 645: 9. EN
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1989 STUDIES ON THE MORPHOLOGY AND SYSTEMATICS OF SCALE INSECTS NO. 15 2. ADULT MALES OF THE GENUS *CHIONASPIS* IN NORTH AMERICA. VA AGRIC EXP STN BULL 88(2): 127-190. EN
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1988 *CHRYSOMPHALUS AONIDUM* (LINNAEUS) (= *ASPIDIOTUS FICUS* (ASHMEAD)) CAB INT INST ENTOMOL DISTRIB MAP PESTS SER A 4: 1-3. EN

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PINE SEED ORCHARDS JOURNAL OF ECONOMIC ENTOMOLOGY 81(5):
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COCKERELL IN LOBLOLLY PINE SEED ORCHARDS J ENTOMOL SCI 24(3):
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